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1 [Teaching programming using scripting languages](#)

[Peter Warren](#)

December 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [Pdf](#) (56.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 68, Citation Count: 3

This paper looks at the potential for using scripting languages to teach programming. demonstrates that the so-called "system programming languages" such as Java and C are not suitable to teaching novices. Conversely the modern "scripting languages" ...

2 [Models and languages for parallel computation](#)

[David B. Skillicorn](#), [Domenico Talia](#)

June 1998 **Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (298.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

Bibliometrics: Downloads (6 Weeks): 78, Downloads (12 Months): 582, Citation Count: 56

We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should ...

Keywords: general-purpose parallel computation, logic programming languages, object oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy

3 [GCspy: an adaptable heap visualisation framework](#)

[Tony Printezis](#), [Richard Jones](#)

November 2002 **OOPSLA '02**: Proceedings of the 17th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (215.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

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GCspy is an architectural framework for the collection, transmission, storage and replication of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented languages).

Keywords: Java, garbage collection, language implementation, memory management, visualisation of objects

Also published in:


November 2002 **SIGPLAN Notices** Volume 37 Issue 11

4 [Real Java for real time - gain and pain](#)

 Anders Nilsson, Torbjörn Ekman, Klas Nilsson

October 2002 **CASES '02**: Proceedings of the 2002 international conference on Compilers, architecture, and synthesis for embedded systems

Publisher: ACM


Full text available:  Pdf (154.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 3

The Java programming language, being a portable and safe object-oriented language gained much interest among embedded and real-time systems developers. However, standard Java implementations exhibit problems with performance, memory footprint and ...


Keywords: embedded systems, real-time Java, rtj

5 [A framework for object oriented hardware specification, verification, and synthesis](#)

 T. Kuhn, T. Oppold, M. Winterhofer, W. Rosenstiel, Marc Edwards, Yaron Kashi

June 2001 **DAC '01**: Proceedings of the 38th annual Design Automation Conference

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (222.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 13, Citation Count: 7

We describe two things. First, we present a uniform framework for object oriented specification and verification of hardware. For this purpose the object oriented language "e" is introduced along with a powerful run-time environment that ...


Keywords: high-level synthesis, object oriented hardware modeling, verification

6 [Template meta-programming for Haskell](#)

 Tim Sheard, Simon Peyton Jones

October 2002 **Haskell '02**: Proceedings of the 2002 ACM SIGPLAN workshop on Haskell

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (169.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 43, Citation Count: 51

We propose a new extension to the purely functional programming language Haskell supports *compile-time meta-programming*. The purpose of the system is to support *algorithmic* construction of programs at compile-time. The ability to ...

Keywords: meta programming, templates


7 [Efficient and precise datarace detection for multithreaded object-oriented programs](#)

 Jong-Deok Choi, Keunwoo Lee, Alexey Loginov, Robert O'Callahan, Vivek Sarkar, Manu Sridharan

June 2002 **PLDI '02**: Proceedings of the ACM SIGPLAN 2002 Conference on Programming Language Design and Implementation

language design and implementation

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (171.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 134, Citation Count: 65


We present a novel approach to dynamic datarace detection for multithreaded object oriented programs. Past techniques for on-the-fly datarace detection either sacrificed precision for performance, leading to many false positive datarace reports, or maintained ...

Keywords: dataraces, debugging, multithreaded programming, object-oriented programming, parallel programs, race conditions, static-dynamic co-analysis, synchronization

Also published in:


May 2002 **SIGPLAN Notices** Volume 37 Issue 5

8 [The Desert environment](#)

 [Steven P. Reiss](#)

October 1999 **Transactions on Software Engineering and Methodology (TOSEM)** ,
8 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (868.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 50, Citation Count: 8

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information ...


Keywords: integrated programming environments, program editors

9 [A software engineering perspective on algorithmics](#)

 [Karsten Weihe](#)

March 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index term review](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 246, Citation Count: 1

An algorithm component is an implementation of an algorithm which is not intended as a stand-alone module, but to perform a specific task within a large software package even within several distinct software packages. Therefore, ...

Keywords: algorithm engineering

10 [Transformations for model checking distributed Java programs](#)

[Scott D. Stoller](#), [Yanhong A. Liu](#)

May 2001 **SPIN '01: Proceedings of the 8th international SPIN workshop on Model checking of software**


Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (108.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 8, Citation Count: 3


This paper describes three program transformations that extend the scope of model checkers for Java programs to include distributed programs, *i.e.*, multi-process programs. The transformations combine multiple processes into a single process, replace ...

11 [The Java syntactic extender \(JSE\)](#)

 [Jonathan Bachrach, Keith Playford](#)

November 2001 **OOPSLA '01**: Proceedings of the 16th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (198.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 20

The ability to extend a language with new syntactic forms is a powerful tool. A sufficiently flexible macro system allows programmers to build from a common base towards a language designed specifically for their problem domain. However, macro facilities ...

Also published in:


November 2001 **SIGPLAN Notices** Volume 36 Issue 11

12 [Componential set-based analysis](#)

 [Cormac Flanagan, Matthias Felleisen](#)

March 1999 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 2

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (497.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 35, Citation Count: 12

Set-based analysis (SBA) produces good predictions about the behavior of functional object-oriented programs. The analysis proceeds by inferring constraints that characterize the data flow relationships of the analyzed program. Experiences ...


Keywords: constraint-based analysis, program analysis, scheme, soft typing, static debugging

13 [Proof linking: modular verification of mobile programs in the presence of lazy, dynamic linking](#)

 [Philip W. L. Fong, Robert D. Cameron](#)

October 2000 **Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (233.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation Count: 1

Although mobile code systems typically employ link-time code verifiers to protect host computers from potentially malicious code, implementation flaws in the verifiers may leave the host system vulnerable to attack. Compounding the inherent complexity ...


Keywords: Java, correctness conditions, dynamic linking, mobile code, modularity, proof linking, safety, verification protocol, virtual machine architecture

14 [Jiazzi: new-age components for old-fashioned Java](#)

 [Sean McDirmid, Matthew Flatt, Wilson C. Hsieh](#)

November 2001 **OOPSLA '01**: Proceedings of the 16th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

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Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 26, Citation Count: 44

We present Jiazzi, a system that enables the construction of large-scale binary components in Java. Jiazzi components can be thought of as generalizations of Java packages with added support for external linking and separate compilation. Jiazzi components ...

Also published in:

November 2001 **SIGPLAN Notices** Volume 36 Issue 11

15 [At the forge: JavaBeans](#)

[Reuven M. Lerner](#)


June 2001 **Linux Journal**, Volume 2001 Issue 86

Publisher: Specialized Systems Consultants, Inc.

Full text available:  Html (19.61 KB) Additional Information: [full citation](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation Count: 0

16 [Programming languages for mobile code](#)

 [Tommy Thorn](#)

September 1997 **Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (393.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 193, Citation Count: 23

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes.


Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

17 [Composable and compilable macros: you want it when?](#)

 [Matthew Flatt](#)

October 2002 **ICFP '02**: Proceedings of the seventh ACM SIGPLAN international conference on Functional programming

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (162.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 43, Citation Count: 19

Many macro systems, especially for Lisp and Scheme, allow macro transformers to perform general computation. Moreover, the language for implementing compile-time macro transformers is usually the same as the language for implementing run-time functions. ...

Keywords: language tower, macros, modules

Also published in:


September 2002 **SIGPLAN Notices** Volume 37 Issue 9

18 [Web II: web-based simulation of systems described by partial differential equations](#)

Manuel Alfonseca, Juan de Lara, Hans Vangheluwe

December 2001 **WSC '01**: Proceedings of the 33rd conference on Winter simulation


Publisher: IEEE Computer Society

Full text available:  [Pdf](#) (538.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 1


This paper describes how to take advantage of Internet services and object technology to solve 2D partial differential equations (PDEs) in a distributed manner. This is accomplished by means of a distributed object oriented continuous simulation language ...

19 [Techniques for obtaining high performance in Java programs](#)

 Ifat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja

September 2000 **Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (816.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 488, Citation Count: 7

This survey describes research directions in techniques to improve the performance of Java programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. ...


Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compilation, dynamic compilation, interpreters, just-in-time compilers

20 [Type-preserving garbage collectors](#)

 Daniel C. Wang, Andrew W. Appel

January 2001 **POPL '01**: Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (221.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), in [terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 23, Citation Count: 17

By combining existing type systems with standard type-based compilation techniques, we describe how to write strongly typed programs that include a function that acts as a tracing garbage collector for the program. Since the garbage collector is an ...

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